



Vaccination Data Analysis & Visualization

YEAR

1980

1981

1982

1983

1984

1985

1986

1987

1988

DISEASE

☐ Select all

☐ CRS

☐ DIPHTHERIA

☐ INVASIVE_MENING

☐ JAPENC

☐ MEASLES

COUNTRY

☐ Select all

☐ Afghanistan

☐ African Region

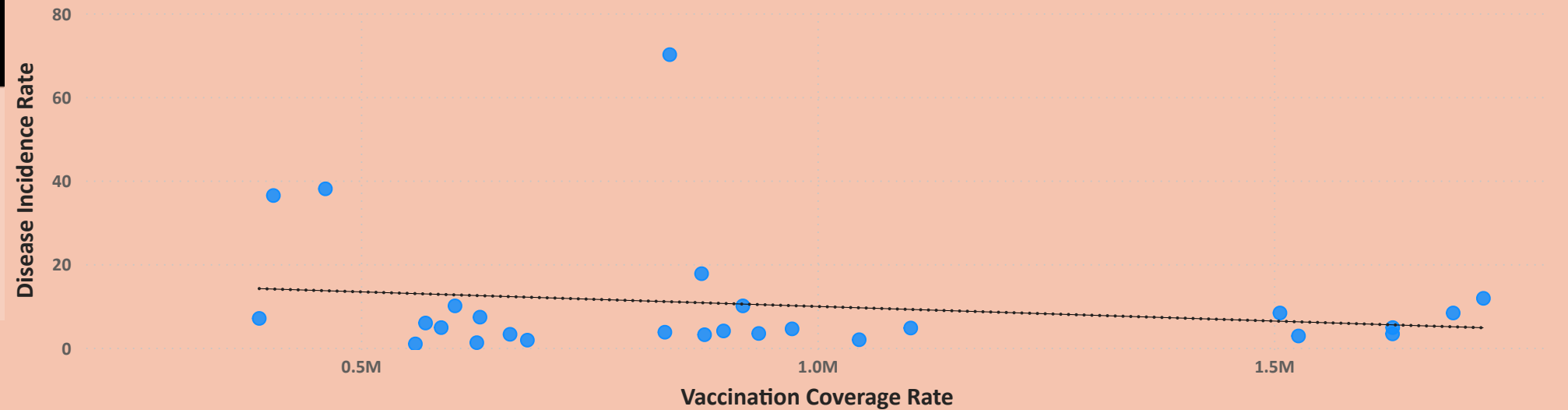
☐ Albania

☐ Algeria

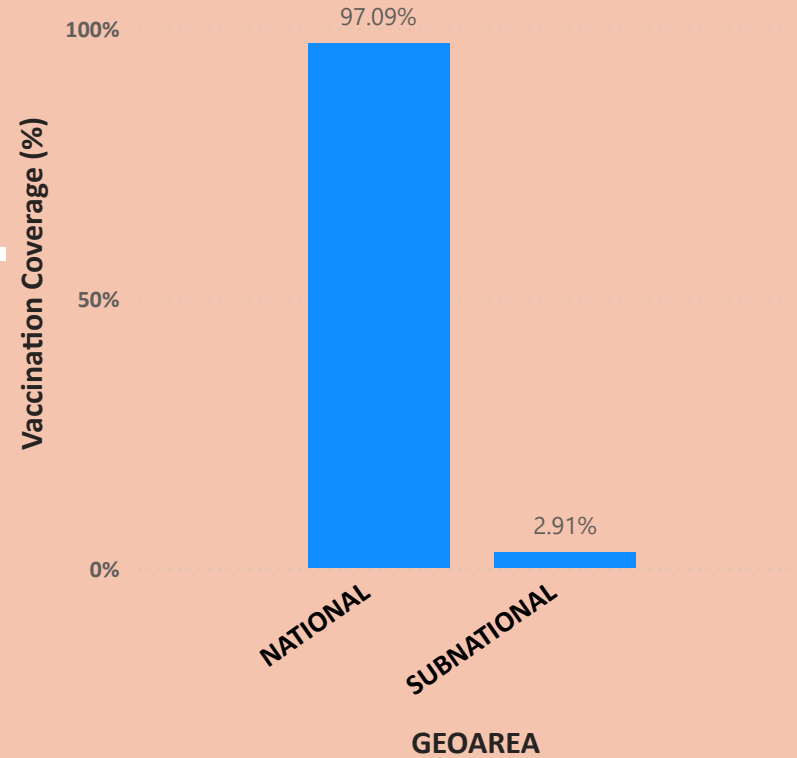
☐ American Samoa

☐ Andorra

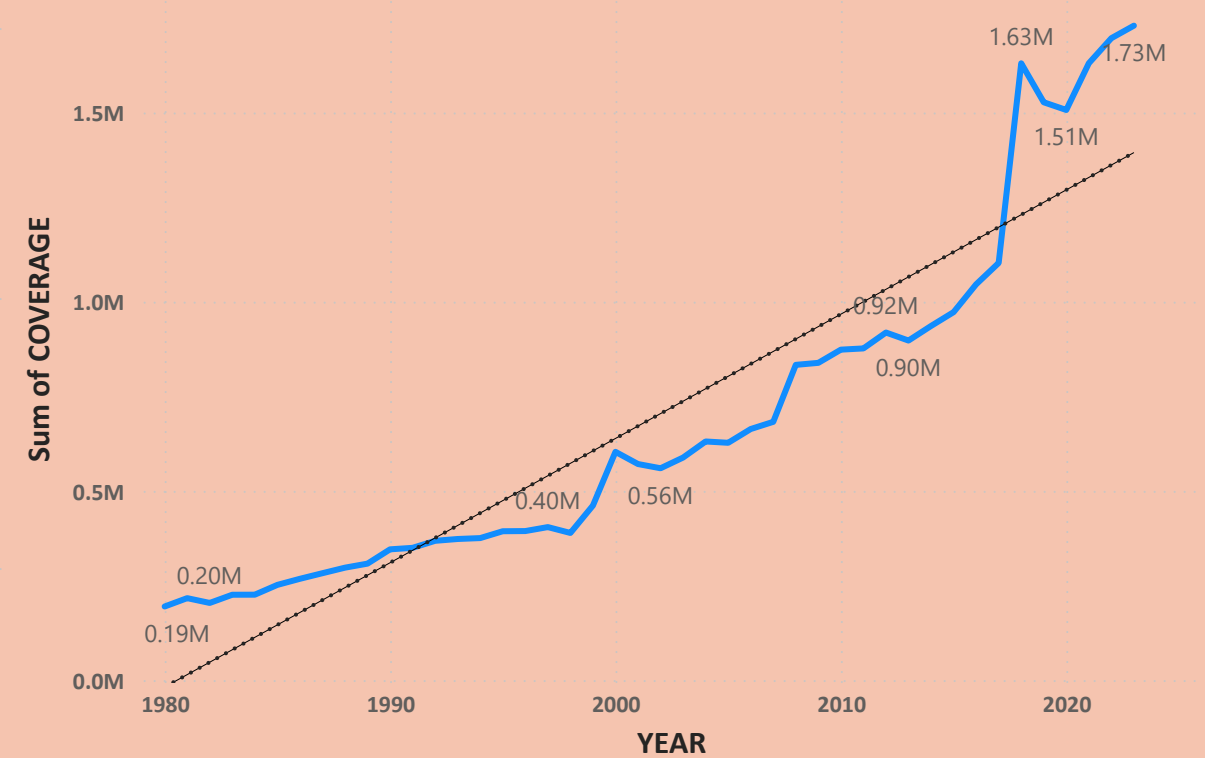
Vaccination Coverage Correlation with Disease Incidence



Urban vs. Rural Vaccination



Seasonal Patterns in Vaccination Uptake



77.77

First Dose Coverage

74.88

Subsequent Dose Coverage

Drop-off rate between 1st
dose and subsequent doses

2.89

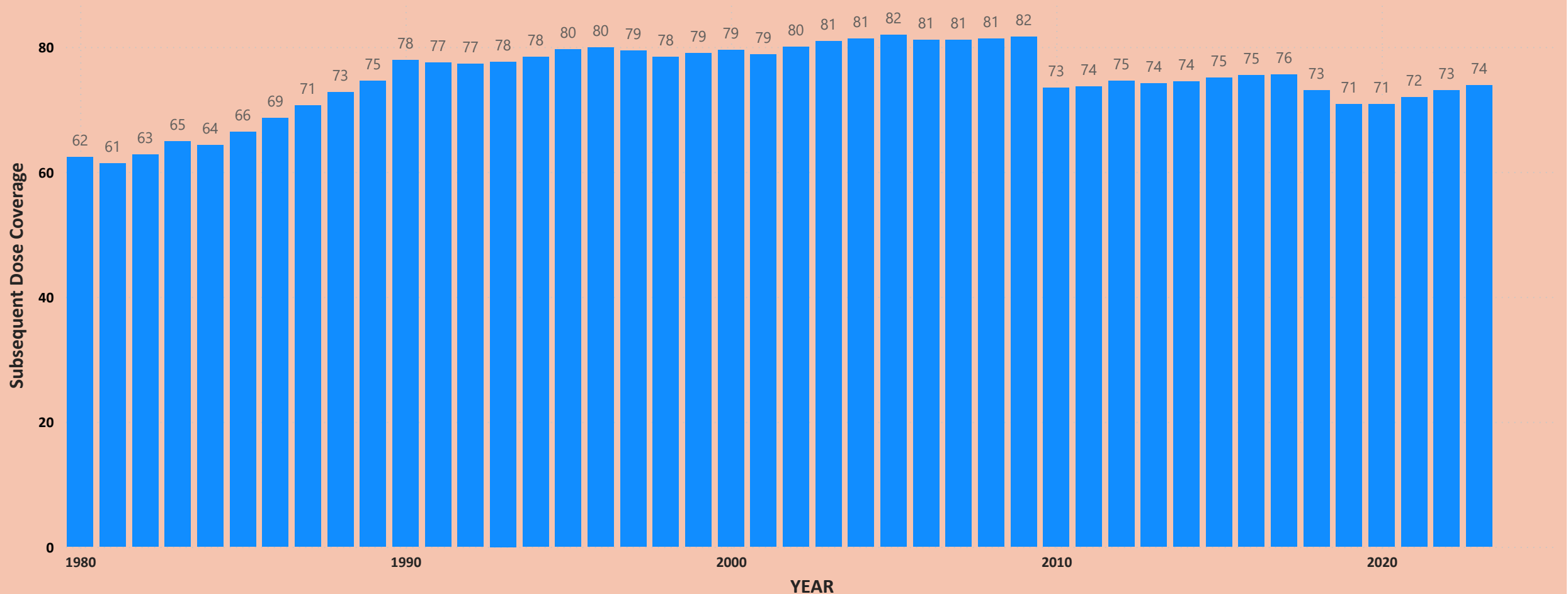
HPV Male Vaccination Rate

11.82

HPV Female Vaccination Rate

46.33

Rate of Booster Dose Uptake Increased by Year



Population Density Related to Vaccination Coverage

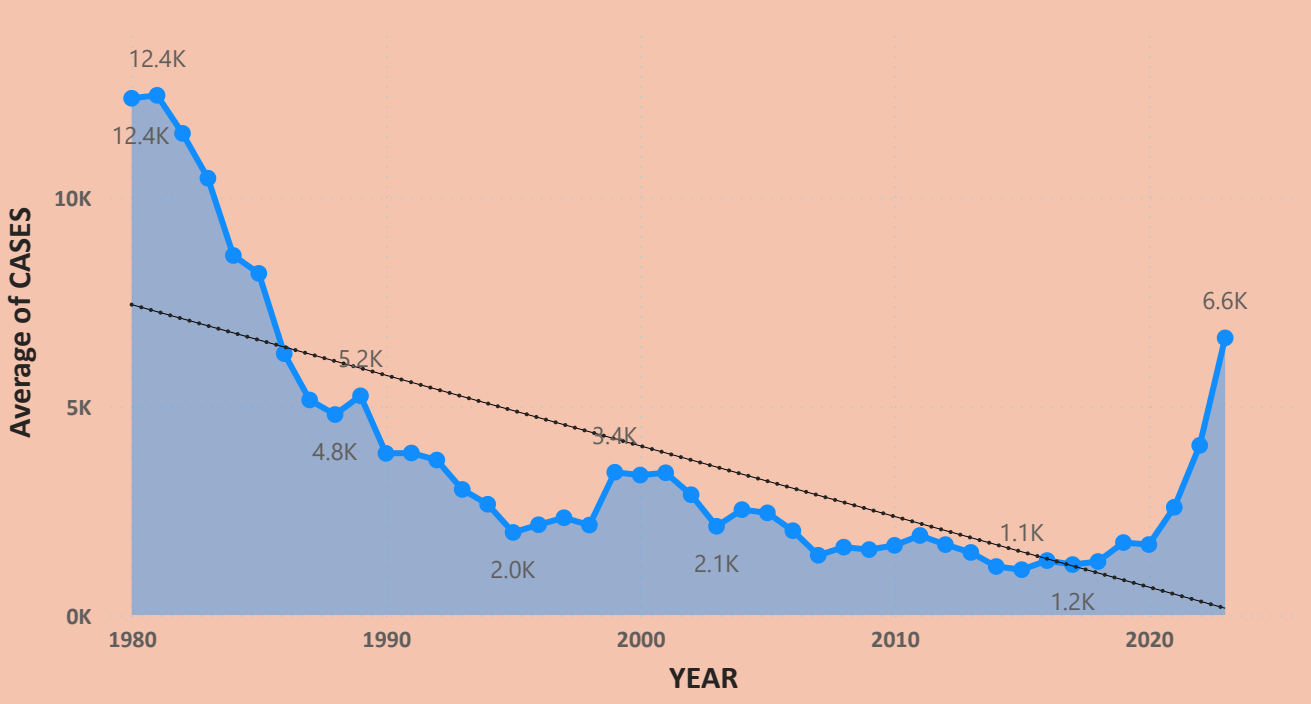


Countries have high disease incidence rate despite having high vaccination rate.

Disease incidence and Vaccination Coverage across Different Regions

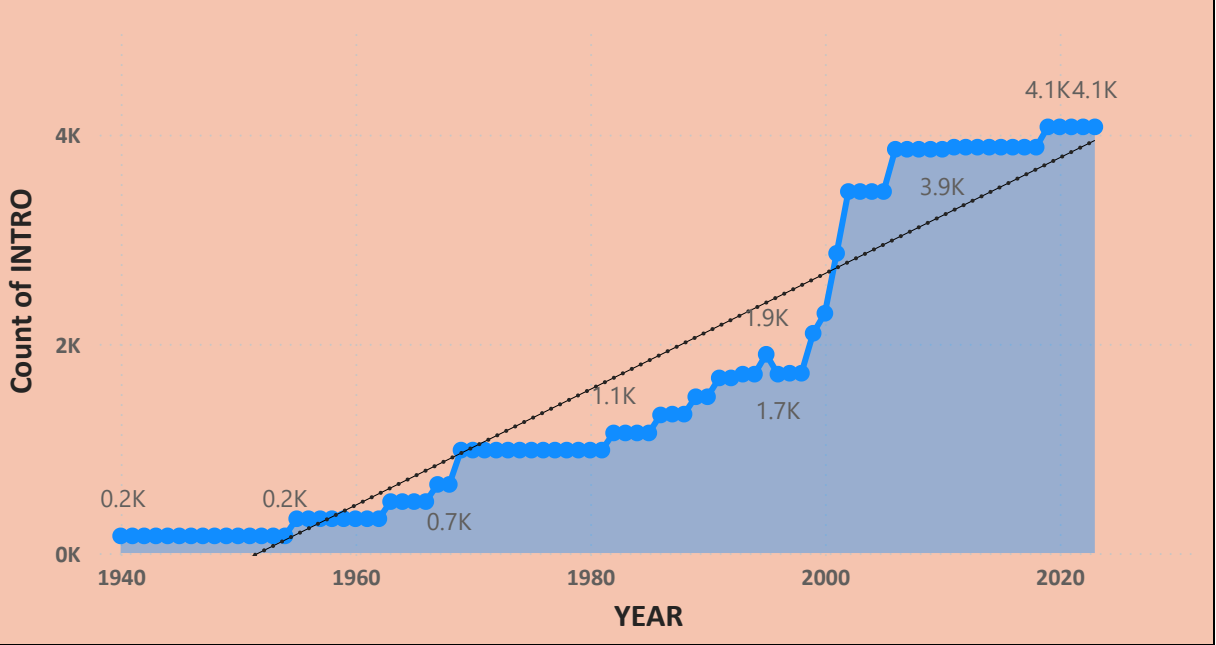
Group	Avg of Vaccination Coverage	Avg of Incidence Rate
COUNTRIES	77.06	80.37
DEVELOPMENT_STATUS	50.17	
GAVI_PHASE5	44.00	
GLOBAL	45.03	56.95
UNICEF_REGIONS	46.89	
WB_LONG	48.78	
WB_SHORT	47.07	
WHO_REGIONS	48.43	65.68
Total	75.68	79.83

Average of Cases by Year



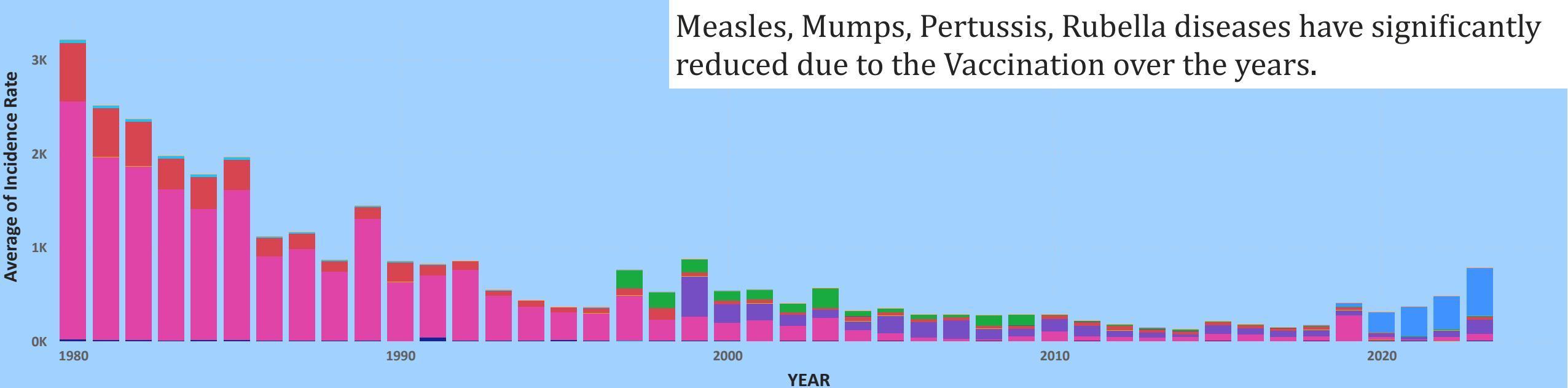
After the vaccine introduction the number of disease cases has reduced.

Count of Vaccine Intro by Year

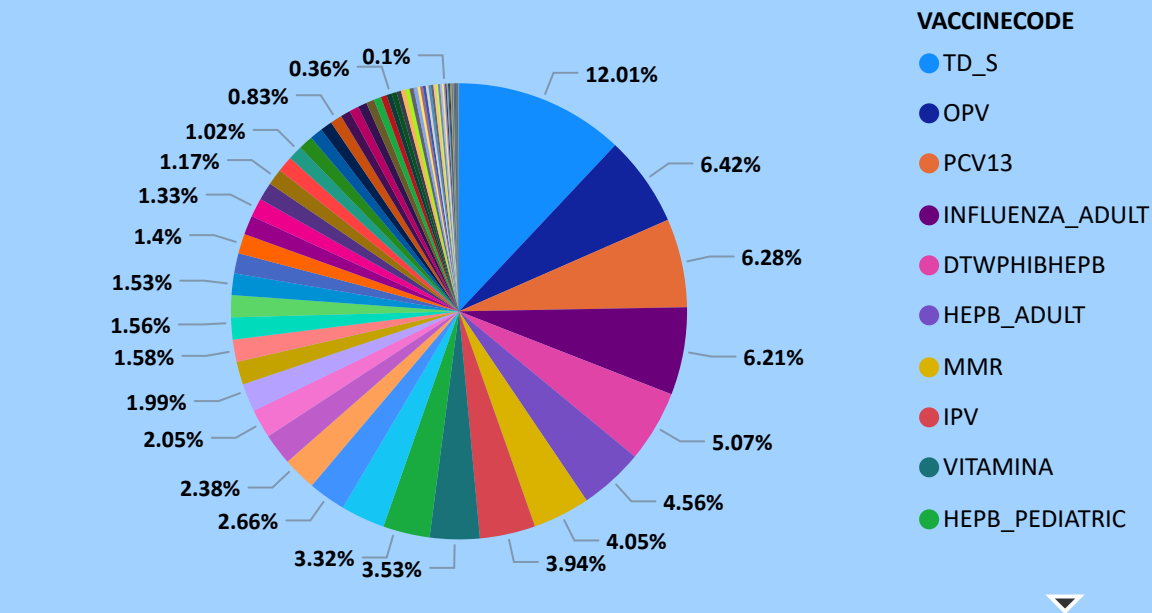


Disease Significant Reduction in Cases after Vaccination

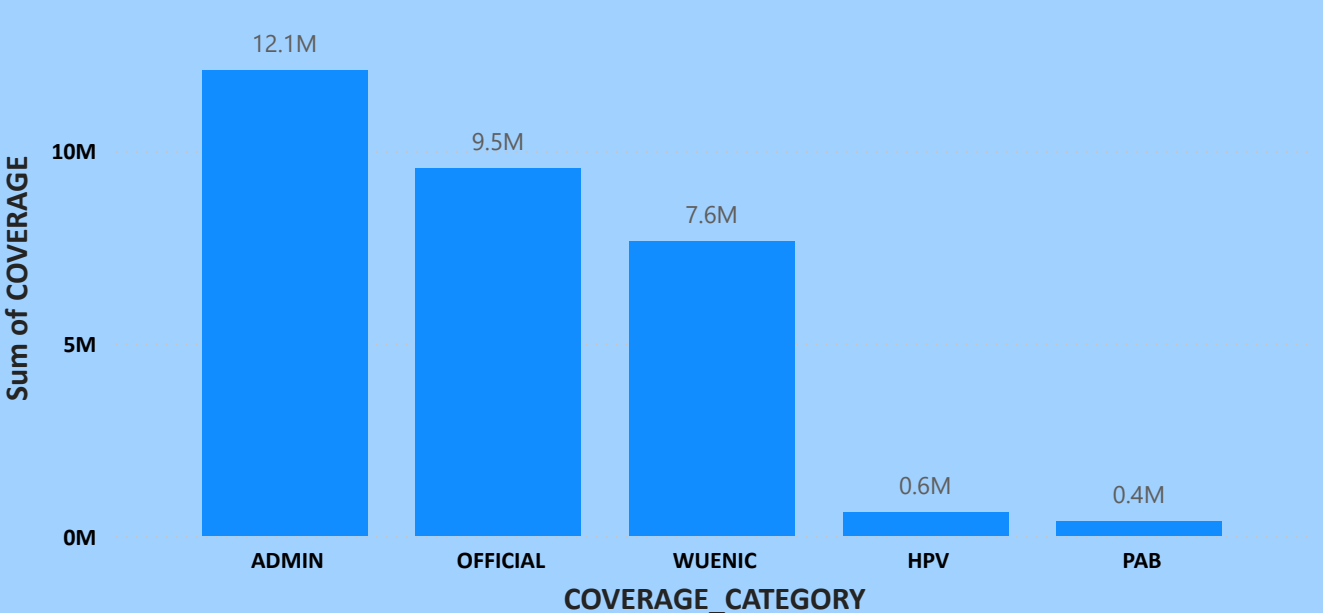
DISEASE CRS DIPHTHERIA INVASIVE_MENING JAPENC MEASLES MUMPS NTETANUS PERTUSSIS POLIO RUBELLA TTETANUS TYPHOID YFEVER



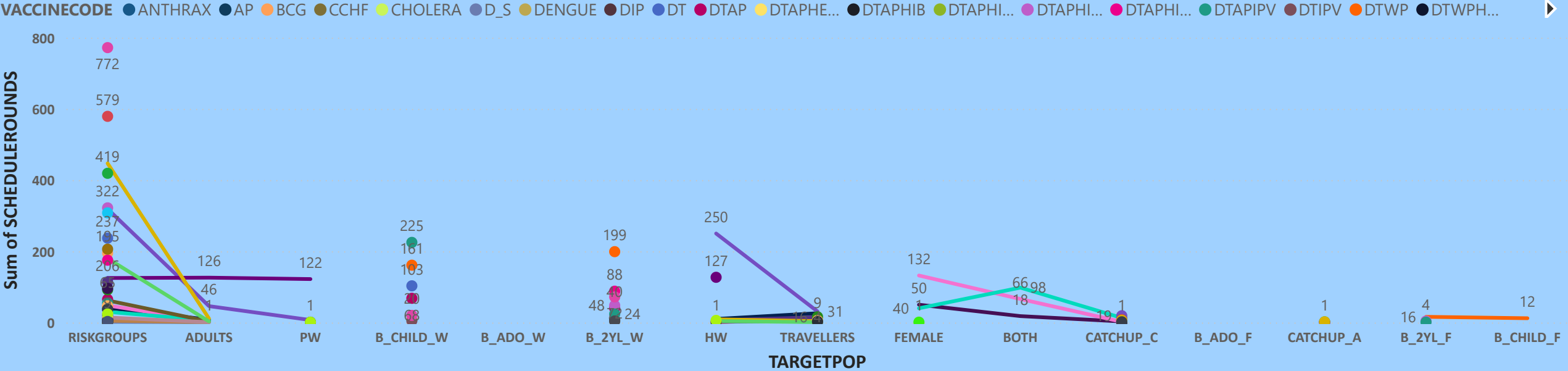
Percentage of the target population has been covered by each vaccine



COVERAGE vs COVERAGE_CATEGORY



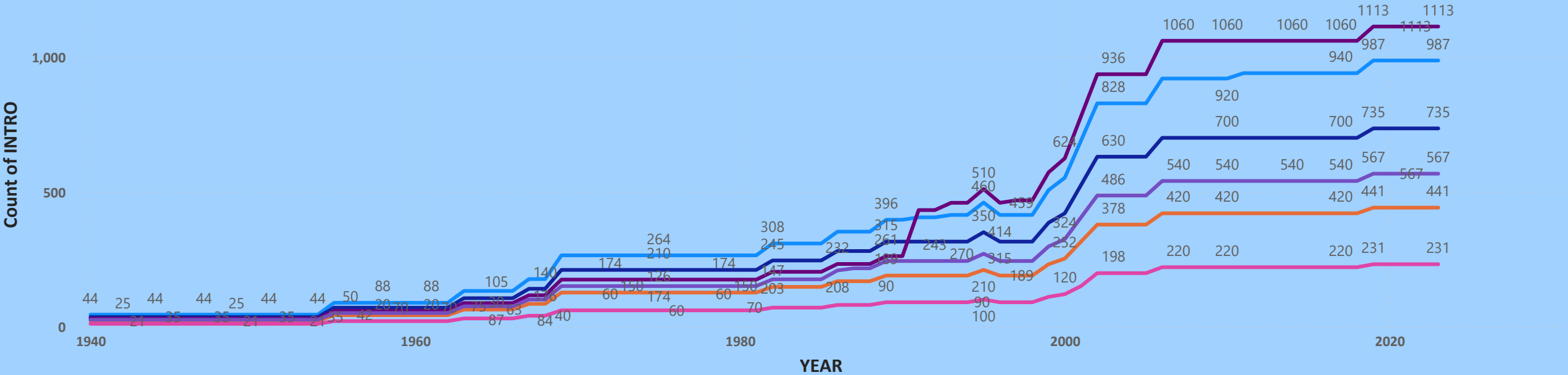
Sum of SCHEDULEROUNDS by TARGETPOP and VACCINECODE



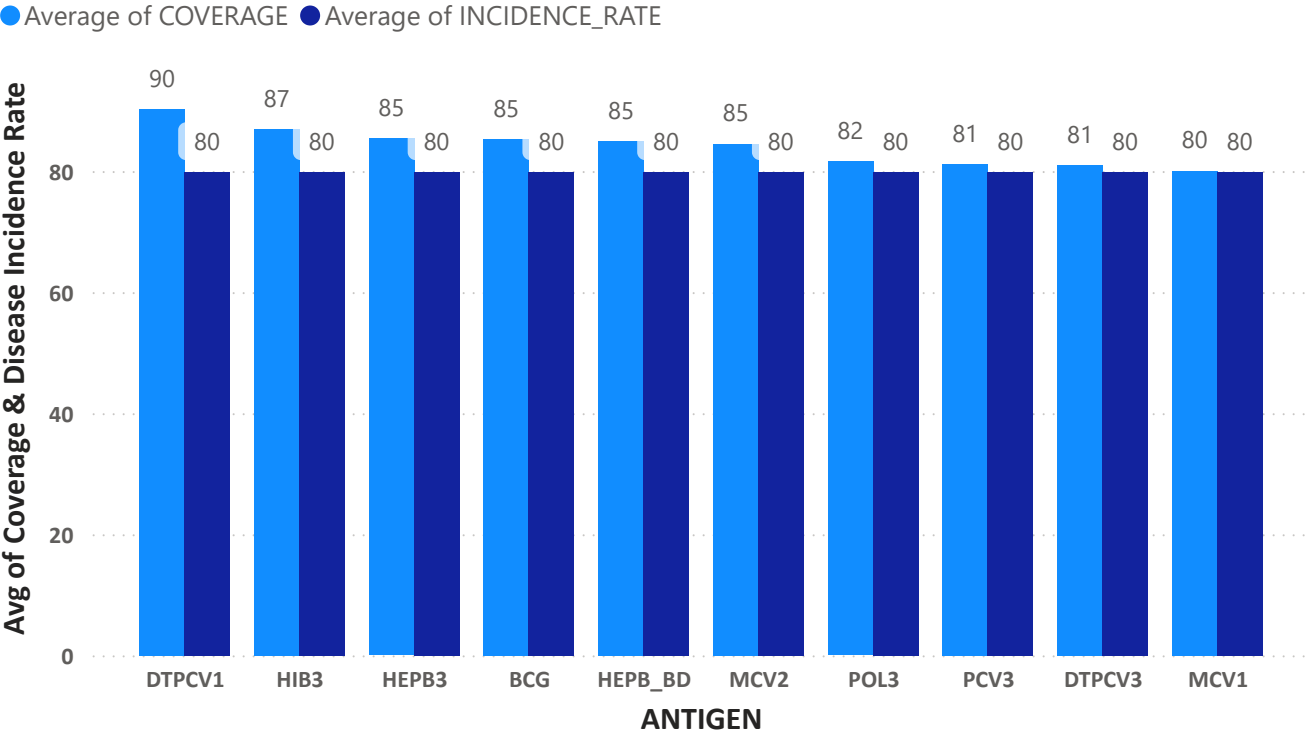
Significant disparities in vaccine introduction timelines across WHO regions

WHO_REGION AFRO AMRO EMRO EURO SEARO WPRO

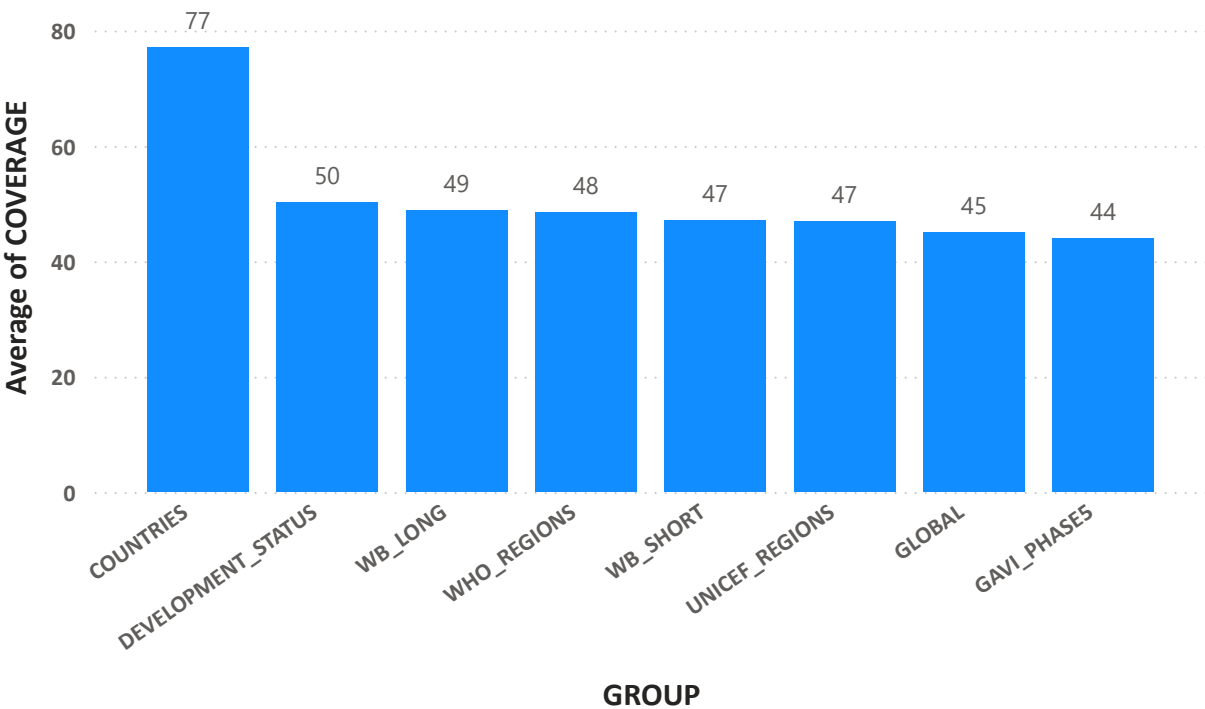
EURO Region has always highest vaccine count compared to other regions



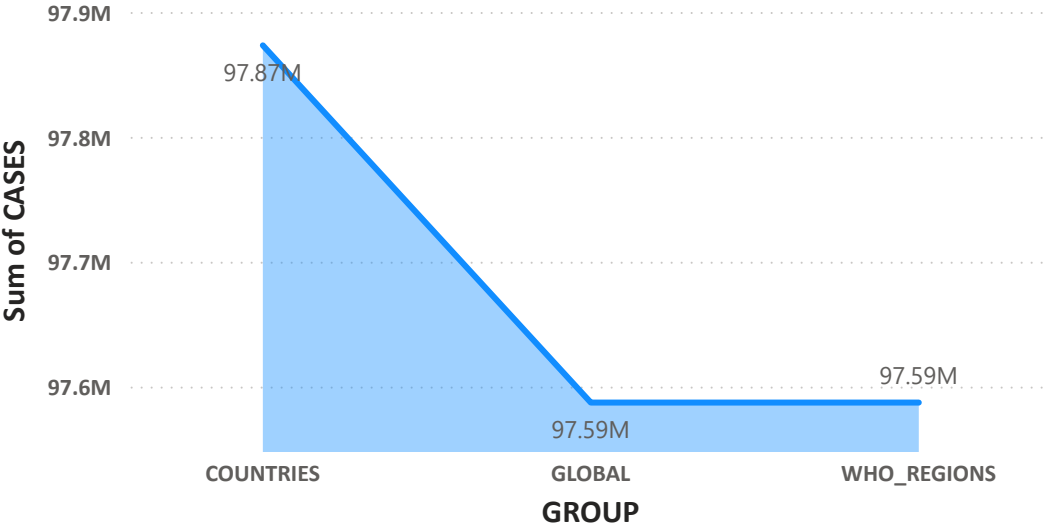
Specific Antigens Coverage vs. Disease Incidence Reduction



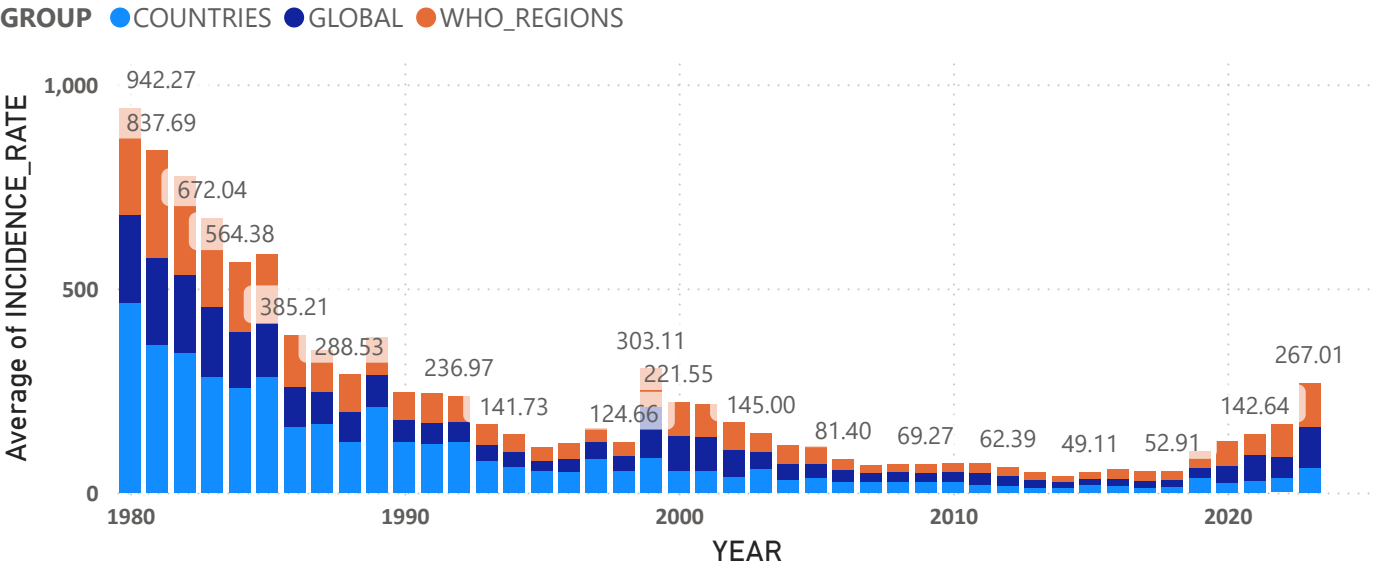
COVERAGE by Specific GROUP



Reported Cases by Specific Group

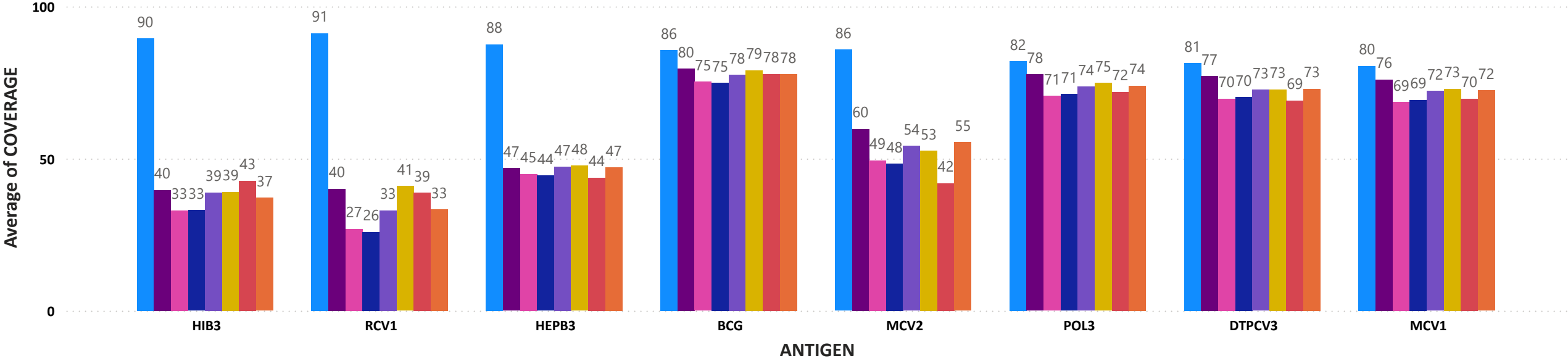


INCIDENCE RATE and DISEASE Over the Year by Each GROUPS

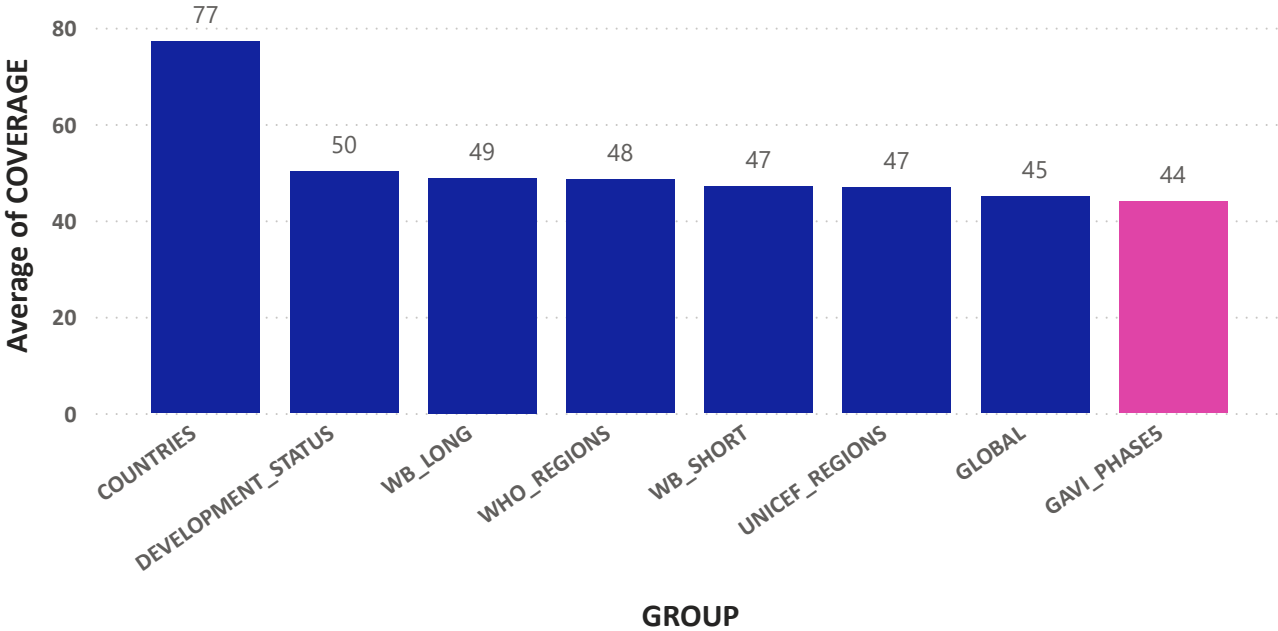


Group with Vaccine Coverage of Each Antigen

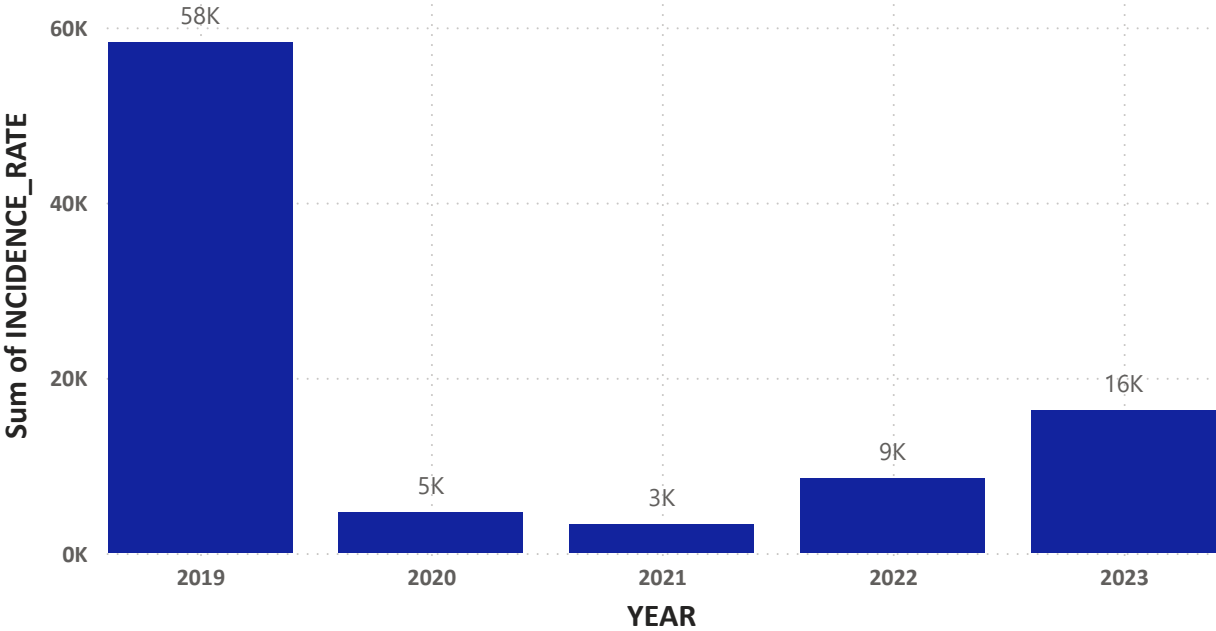
GROUP COUNTRIES DEVELOPMENT_STATUS GAVI_PHASE5 GLOBAL UNICEF_REGIONS WB_LONG WB_SHORT WHO_REGIONS



Regions with Low Vaccination Coverage

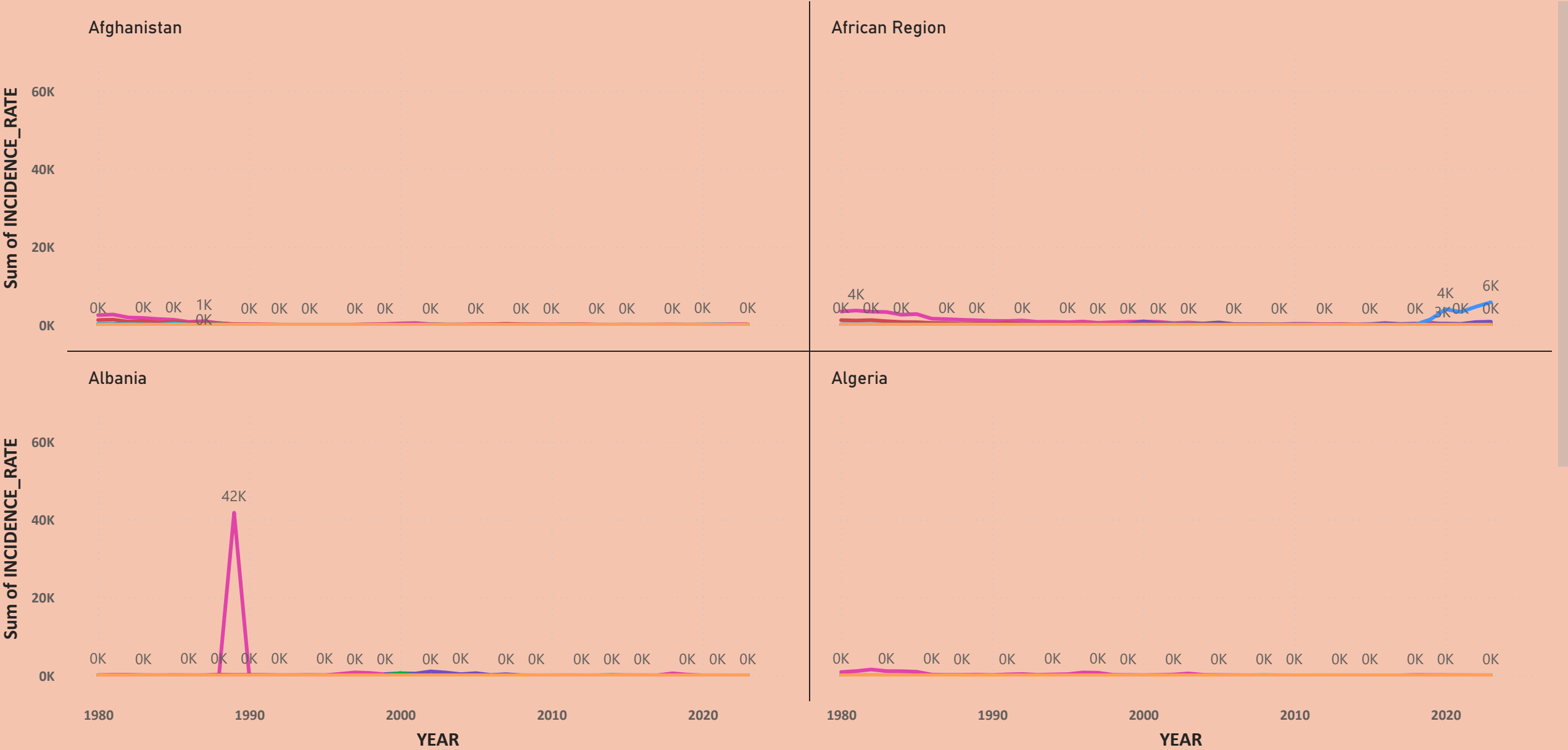


MEASLES INCIDENCE RATE 5 YEARS AGO



Vaccine demand for a specific disease

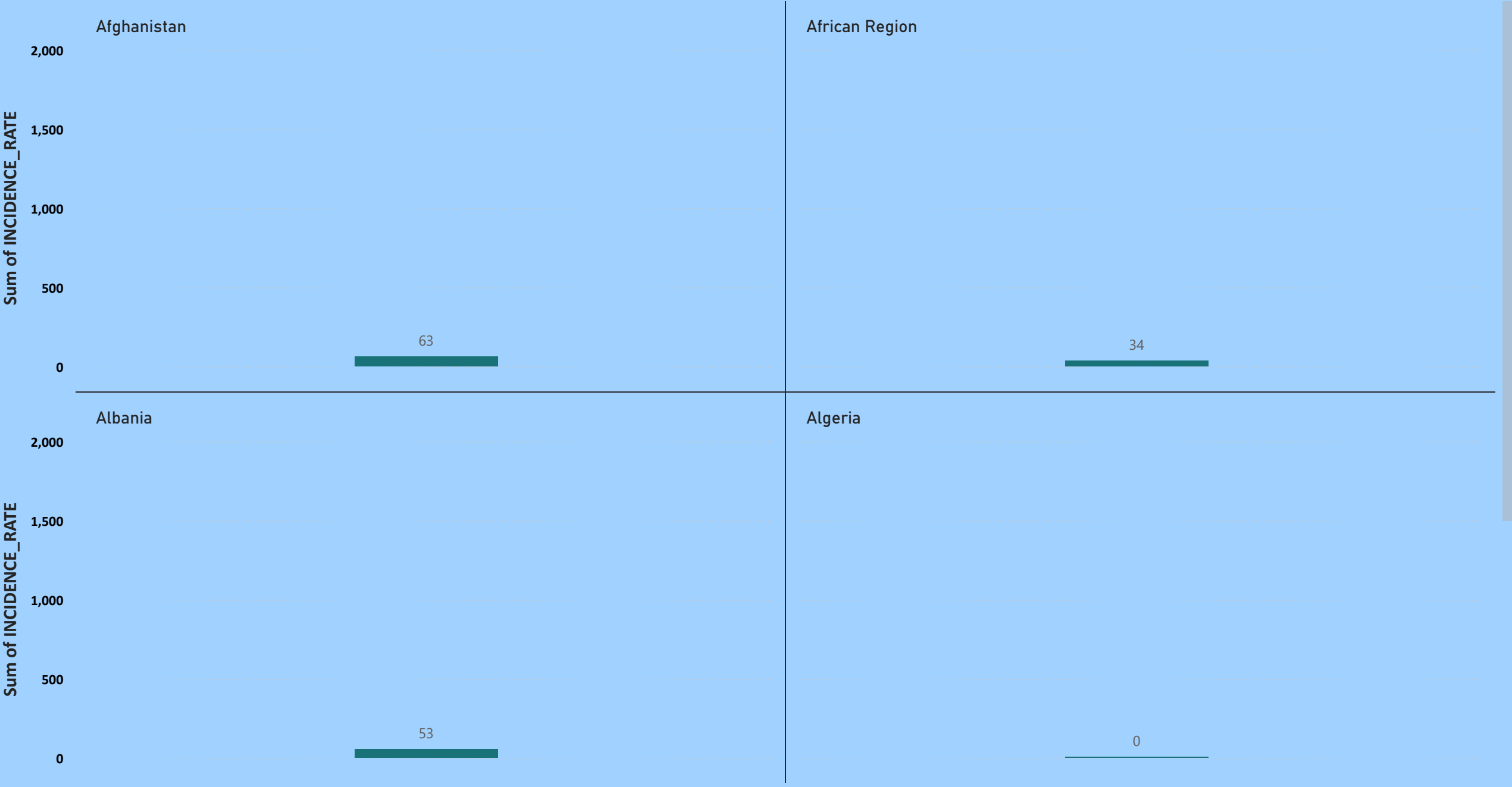
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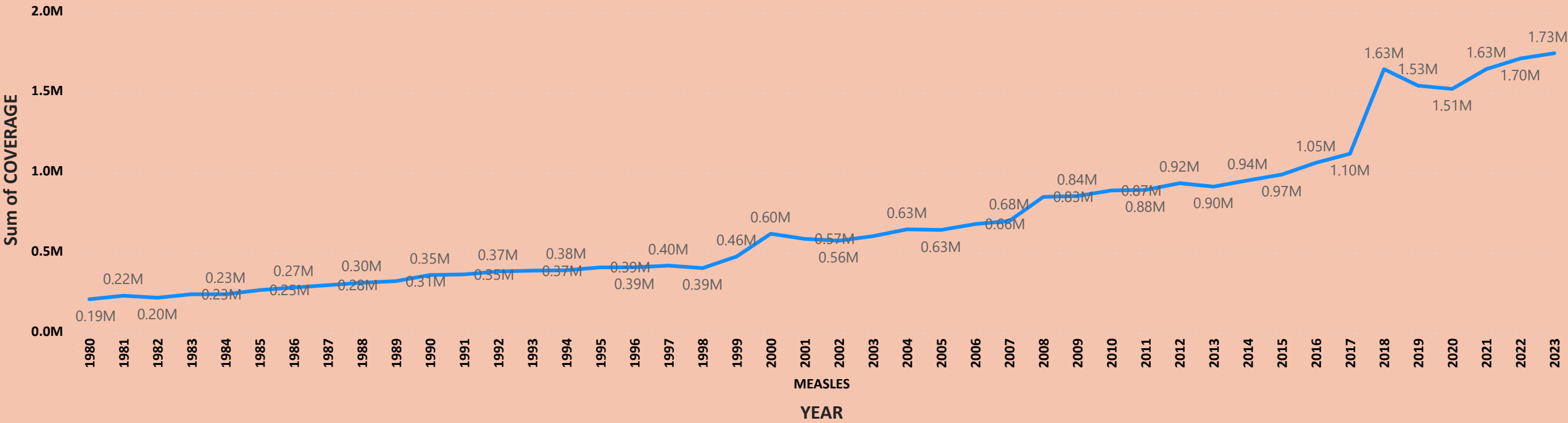
Estimate future vaccine demand for a specific disease are Measles, Mumps, Typhoid.

Incidence rates of polio in populations with no vaccination coverage

DISEASE ● POLIO



Measles Vaccination Coverage



Vaccines to high-risk populations

